ANNEX I

SUMMARY OF PRODUCT CHARACTERISTICS

1. NAME OF THE MEDICINAL PRODUCT

Posaconazole AHCL 40 mg/mL oral suspension

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Each mL of oral suspension contains 40 mg of posaconazole.

Excipient(s) with known effect

This medicinal product contains approximately 1.75 g of glucose per 5 mL of suspension. This medicinal product contains up to 5.2 mg propylene glycol (E1520) per 5ml of suspension. This medicinal product contains 11.4 mg sodium benzoate (E211) in each 5ml of suspension. This medicinal product contains up to 0.114 mg benzoic acid (E210) in each 5ml of suspension.

For the full list of excipients, see section 6.1.

3. PHARMACEUTICAL FORM

Oral suspension

White to off-white free flowing suspension.

4. CLINICAL PARTICULARS

4.1 Therapeutic indications

Posaconazole AHCL oral suspension is indicated for use in the treatment of the following fungal infections in adults (see section 5.1):

- Invasive aspergillosis in patients with disease that is refractory to amphotericin B or itraconazole or in patients who are intolerant of these medicinal products;
- Fusariosis in patients with disease that is refractory to amphotericin B or in patients who are intolerant of amphotericin B;
- Chromoblastomycosis and mycetoma in patients with disease that is refractory to itraconazole or in patients who are intolerant of itraconazole;
- Coccidioidomycosis in patients with disease that is refractory to amphotericin B, itraconazole or fluconazole or in patients who are intolerant of these medicinal products.
- Oropharyngeal candidiasis: as first-line therapy in patients who have severe disease or are immunocompromised, in whom response to topical therapy is expected to be poor.

Refractoriness is defined as progression of infection or failure to improve after a minimum of 7 days of prior therapeutic doses of effective antifungal therapy.

Posaconazole AHCL oral suspension is also indicated for prophylaxis of invasive fungal infections in the following patients:

- Patients receiving remission-induction chemotherapy for acute myelogenous leukaemia (AML) or myelodysplastic syndromes (MDS) expected to result in prolonged neutropenia and who are at high risk of developing invasive fungal infections;
- Hematopoietic stem cell transplant (HSCT) recipients who are undergoing high-dose immunosuppressive therapy for graft versus host disease and who are at high risk of developing invasive fungal infections.

4.2 Posology and method of administration

Treatment should be initiated by a physician experienced in the management of fungal infections or in the supportive care of high-risk patients for which posaconazole is indicated as prophylaxis.

Non-interchangeability between Posaconazole AHCL oral suspension and posaconazole tablets or posaconazole gastro-resistant powder and solvent for oral suspension.

Posaconazole oral suspension is indicated for the adult population (≥ 18 years old) only.

The oral suspension is not to be used interchangeably with either the tablet or gastro-resistant powder and solvent for oral suspension due to the differences in frequency of dosing, administration with food and plasma drug concentration achieved. Therefore, follow the specific dose recommendations for each formulation.

Posology

Posaconazole is also available as 100 mg gastro-resistant tablet, 300 mg concentrate for solution for infusion and 300 mg gastro-resistant powder and solvent for oral suspension. Posaconazole tablets generally provide higher plasma drug exposures than posaconazole oral suspension under both fed and fasted conditions. Therefore, the tablets are the preferred formulation over the oral suspension to optimize plasma concentrations.

Recommended dose is shown in Table 1.

Indication	Dose and duration of therapy
	(See section 5.2)
Refractory invasive fungal infections (IFI)/patients with IFI intolerant to 1 st line therapy	200 mg (5 mL) four times a day. Alternatively, patients who can tolerate food or a nutritional supplement may take 400 mg (10 mL) twice a day during or immediately following a meal or nutritional supplement. Duration of therapy should be based on the severity of the underlying disease, recovery from immunosuppression, and
	clinical response.
Oropharyngeal candidiasis	Loading dose of 200 mg (5 mL) once a day on the first day, then 100 mg (2.5 mL) once a day for 13 days. Each dose of Posaconazole AHCL should be administered during or immediately after a meal, or a nutritional supplement in patients who cannot tolerate food to enhance the oral absorption and to ensure adequate exposure
Prophylaxis of invasive fungal infections	200 mg (5 mL) three times a day. Each dose of Posaconazole AHCL should be administered during or immediately after a meal, or a nutritional supplement in patients who cannot tolerate food to enhance the oral absorption and to ensure adequate exposure. The duration of therapy is based on recovery from neutropenia or immunosuppression. For patients with acute myelogenous leukaemia or myelodysplastic syndromes, prophylaxis with Posaconazole AHCL should start several days before the anticipated onset of neutropenia and continue for 7 days after the neutrophil count rises above 500 cells per mm ³ .

Table	1.	Recommended	dose i	n adults	according	to indication
I able	1.	Recommended	dose 1	n adults	according	to indication

Special populations

Renal impairment

An effect of renal impairment on the pharmacokinetics of posaconazole is not expected and no dose adjustment is recommended (see section 5.2).

Hepatic impairment

Limited data on the effect of hepatic impairment (including Child-Pugh C classification of chronic liver disease) on the pharmacokinetics of posaconazole demonstrate an increase in plasma exposure compared to subjects with normal hepatic function, but do not suggest that dose adjustment is necessary (see sections 4.4 and 5.2). It is recommended to exercise caution due to the potential for higher plasma exposure.

Paediatric population

The safety and efficacy of posaconazole oral suspension have not been established in children and adolescents aged below 18 years. Currently available data are described in sections 5.1 and 5.2, but no recommendation on a posology can be made. Two other oral formulations, posaconazole gastro-resistant powder and solvent for oral suspension and posaconazole tablets, are available for the paediatric population.

Method of administration

For oral use.

The oral suspension must be shaken well before use. Bottles showing any visible settling should be vigorously shaken for a minimum of 10 seconds. Other formulations containing posaconazole are available in the market for the use in primary treatment of invasive aspergilosis.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Co-administration with ergot alkaloids (see section 4.5).

Co-administration with the CYP3A4 substrates terfenadine, astemizole, cisapride, pimozide, halofantrine or quinidine since this may result in increased plasma concentrations of these medicinal products, leading to QTc prolongation and rare occurrences of torsades de pointes (see sections 4.4 and 4.5).

Co-administration with the HMG-CoA reductase inhibitors simvastatin, lovastatin and atorvastatin (see section 4.5).

Co-administration during the initiation and dose-titration phase of venetoclax in Chronic Lymphocytic Leukaemia (CLL) patients (see sections 4.4 and 4.5).

4.4 Special warnings and precautions for use

Hypersensitivity

There is no information regarding cross-sensitivity between posaconazole and other azole antifungal agents. Caution should be used when prescribing posaconazole to patients with hypersensitivity to other azoles.

Hepatic toxicity

Hepatic reactions (e.g. mild to moderate elevations in ALT, AST, alkaline phosphatase, total bilirubin and/or clinical hepatitis) have been reported during treatment with posaconazole. Elevated liver function tests were generally reversible on discontinuation of therapy and in some instances these tests normalised without interruption of therapy. Rarely, more severe hepatic reactions with fatal outcomes have been reported.

Posaconazole should be used with caution in patients with hepatic impairment due to limited clinical experience and the possibility that posaconazole plasma levels may be higher in these patients (see sections 4.2 and 5.2).

Monitoring of hepatic function

Liver function tests should be evaluated at the start of and during the course of posaconazole therapy. Patients who develop abnormal liver function tests during posaconazole therapy must be routinely monitored for the development of more severe hepatic injury. Patient management should include laboratory evaluation of hepatic function (particularly liver function tests and bilirubin). Discontinuation of posaconazole should be considered if clinical signs and symptoms are consistent with development of liver disease.

QTc prolongation

Some azoles have been associated with prolongation of the QTc interval. Posaconazole must not be administered with medicinal products that are substrates for CYP3A4 and are known to prolong the QTc interval (see sections 4.3 and 4.5). Posaconazole should be administered with caution to patients with pro-arrhythmic conditions such as:

- Congenital or acquired QTc prolongation
- Cardiomyopathy, especially in the presence of cardiac failure
- Sinus bradycardia
- Existing symptomatic arrhythmias
- Concomitant use with medicinal products known to prolong the QTc interval (other than those mentioned in section 4.3).

Electrolyte disturbances, especially those involving potassium, magnesium or calcium levels, should be monitored and corrected as necessary before and during posaconazole therapy.

Drug interactions

Posaconazole is an inhibitor of CYP3A4 and should only be used under specific circumstances during treatment with other medicinal products that are metabolised by CYP3A4 (see section 4.5).

Midazolam and other benzodiazepines

Due to the risk of prolonged sedation and possible respiratory depression co-administration of posaconazole with any benzodiazepines metabolised by CYP3A4 (e.g. midazolam, triazolam, alprazolam) should only be considered if clearly necessary. Dose adjustment of benzodiazepines metabolised by CYP3A4 should be considered (see section 4.5).

Vincristine toxicity

Concomitant administration of azole antifungals, including posaconazole, with vincristine has been associated with neurotoxicity and other serious adverse reactions, including seizures, peripheral neuropathy, syndrome of inappropriate antidiuretic hormone secretion, and paralytic ileus. Reserve azole antifungals, including posaconazole, for patients receiving a vinca alkaloid, including vincristine, who have no alternative antifungal treatment options (see section 4.5).

Venetoclax toxicity

Concomitant administration of strong CYP3A inhibitors, including posaconazole, with the CYP3A4 substrate venetoclax, may increase venetoclax toxicities, including the risk of tumour lysis syndrome (TLS) and neutropenia (see sections 4.3 and 4.5). Refer to the venetoclax SmPC for detailed guidance.

Rifamycin antibacterials (rifampicin, rifabutin), flucloxacillin, certain anticonvulsants (phenytoin, carbamazepine, phenobarbital, primidone), efavirenz and cimetidine

Posaconazole concentrations may be significantly lowered in combination; therefore, concomitant use with posaconazole should be avoided unless the benefit to the patient outweighs the risk (see section 4.5).

Photosensitivity reaction

Posaconazole may cause increased risk of photosensitivity reaction. Patients should be advised to avoid sun exposure during treatment without adequate protection such as protective clothing and sunscreen with a high sun protection factor (SPF).

Gastrointestinal dysfunction

There are limited pharmacokinetic data in patients with severe gastrointestinal dysfunction (such as severe diarrhoea). Patients who have severe diarrhoea or vomiting should be monitored closely for breakthrough fungal infections.

Excipients

Propylene glycol

This medicinal product contains up to 5.2 mg propylene glycol (E1520) per 5ml of suspension.

Sodium benzoate

This medicinal product contains 11.4mg sodium benzoate (E211) in each 5ml of suspension.

Benzoic acid

This medicinal product contains up to 0.114mg benzoic acid (E210) in each 5ml of suspension.

Glucose

This medicinal product contains approximately 1.75 g of glucose per 5 mL of suspension. Patients with rare glucose-galactose malabsorption should not take this medicinal product.

Sodium

This medicinal product contains less than 1 mmol sodium (23 mg) per 5 mL of suspension, that is to say essentially 'sodium-free'.

4.5 Interaction with other medicinal products and other forms of interaction

Effects of other medicinal products on posaconazole

Posaconazole is metabolised via UDP glucuronidation (phase 2 enzymes) and is a substrate for p-glycoprotein (P-gp) efflux in vitro. Therefore, inhibitors (e.g. verapamil, ciclosporin, quinidine, clarithromycin, erythromycin, etc.) or inducers (e.g. rifampicin, rifabutin, certain anticonvulsants, etc.) of these clearance pathways may increase or decrease posaconazole plasma concentrations, respectively.

Flucloxacillin

Flucloxacillin (a CYP450 inducer) may decrease plasma posaconazole concentrations. Concomitant use of posaconazole and flucloxacillin should be avoided unless the benefit to the patient outweighs the risk (see section 4.4).

Rifabutin

Rifabutin (300 mg once a day) decreased the C_{max} (maximum plasma concentration) and AUC (area under the plasma concentration time curve) of posaconazole to 57 % and 51 %, respectively. Concomitant use of posaconazole and rifabutin and similar inducers (e.g. rifampicin) should be avoided unless the benefit to the patient outweighs the risk. See also below regarding the effect of posaconazole on rifabutin plasma levels.

Efavirenz,

Efavirenz (400 mg once a day) decreased the Cmax and AUC of posaconazole by 45 % and 50 %, respectively. Concomitant use of posaconazole and efavirenz should be avoided unless the benefit to the patient outweighs the risk.

Fosamprenavir

Combining fosamprenavir with posaconazole may lead to decreased posaconazole plasma concentrations. If concomitant administration is required, close monitoring for breakthrough fungal infections is recommended. Repeat dose administration of fosamprenavir (700 mg twice daily x 10 days) decreased the C_{max} and AUC of posaconazole oral suspension (200 mg once daily on the 1st day, 200 mg twice daily on the 2nd day, then 400 mg twice daily x 8 days) by 21 % and 23 %, respectively. The effect of posaconazole on fosamprenavir levels when fosamprenavir is given with ritonavir is unknown.

Phenytoin

Phenytoin (200 mg once a day) decreased the C_{max} and AUC of posaconazole by 41 % and 50 %, respectively. Concomitant use of posaconazole and phenytoin and similar inducers (e.g. carbamazepine, phenobarbital, primidone) should be avoided unless the benefit to the patient outweighs the risk.

H₂ receptor antagonists and proton pump inhibitors

Posaconazole plasma concentrations (C_{max} and AUC) were reduced by 39 % when posaconazole was administered with cimetidine (400 mg twice a day) due to reduced absorption possibly secondary to a decrease in gastric acid production. Co-administration of posaconazole with H2 receptor antagonists should be avoided if possible. Similarly, administration of 400 mg posaconazole with esomeprazole (40 mg daily) decreased mean C_{max} and AUC by 46 % and 32 %, respectively, compared to dosing with 400 mg posaconazole alone. Co-administration of posaconazole with proton pump inhibitors should be avoided if possible.

Food

The absorption of posaconazole is significantly increased by food (see sections 4.2 and 5.2).

Effects of posaconazole on other medicinal products

Posaconazole is a potent inhibitor of CYP3A4. Co-administration of posaconazole with CYP3A4 substrates may result in large increases in exposure to CYP3A4 substrates as exemplified by the effects on tacrolimus, sirolimus, atazanavir and midazolam below. Caution is advised during co-administration of posaconazole with CYP3A4 substrates administered intravenously and the dose of the CYP3A4 substrate may need to be reduced. If posaconazole is used concomitantly with CYP3A4 substrates that are administered orally, and for which an increase in plasma concentrations may be associated with unacceptable adverse reactions, plasma concentrations of the CYP3A4 substrate and/or adverse reactions should be closely monitored and the dose adjusted as needed. Several of the interaction studies were conducted in healthy volunteers in whom a higher exposure to posaconazole occurs compared to patients administered the same dose. The effect of posaconazole on CYP3A4 substrates in patients might be somewhat lower than that observed in healthy volunteers, and is expected to be variable between patients due to the variable posaconazole exposure in patients. The effect of co-administration with posaconazole on plasma levels of CYP3A4 substrates may also be variable within a patient, unless posaconazole is administered in a strictly standardised way with food, given the large food effect on posaconazole exposure (see section 5.2).

Terfenadine, astemizole, cisapride, pimozide, halofantrine and quinidine (CYP3A4 substrates) Co-administration of posaconazole and terfenadine, astemizole, cisapride, pimozide, halofantrine or quinidine is contraindicated. Co-administration may result in increased plasma concentrations of these medicinal products, leading to QTc prolongation and rare occurrences of torsades de pointes (see section 4.3).

Ergot alkaloids

Posaconazole may increase the plasma concentration of ergot alkaloids (ergotamine and dihydroergotamine), which may lead to ergotism. Co-administration of posaconazole and ergot alkaloids is contraindicated (see section 4.3).

HMG-CoA reductase inhibitors metabolised through CYP3A4 (e.g. simvastatin, lovastatin, and atorvastatin)

Posaconazole may substantially increase plasma levels of HMG-CoA reductase inhibitors that are metabolised by CYP3A4. Treatment with these HMG-CoA reductase inhibitors should be discontinued during treatment with posaconazole as increased levels have been associated with rhabdomyolysis (see section 4.3).

Vinca alkaloids

Most of the vinca alkaloids (e.g., vincristine and vinblastine) are substrates of CYP3A4. Concomitant administration of azole antifungals, including posaconazole, with vincristine has been associated with serious adverse reactions (see section 4.4). Posaconazole may increase the plasma concentrations of vinca alkaloids which may lead to neurotoxicity and other serious adverse reactions. Therefore, reserve azole antifungals, including posaconazole, for patients receiving a vinca alkaloid, including vincristine, who have no alternative antifungal treatment options.

Rifabutin

Posaconazole increased the C_{max} and AUC of rifabutin by 31 % and 72 %, respectively. Concomitant use of posaconazole and rifabutin should be avoided unless the benefit to the patient outweighs the risk (see also above regarding the effect of rifabutin on plasma levels of posaconazole). If these medicinal products are co-administered, careful monitoring of full blood counts and adverse reactions related to increased rifabutin levels (e.g. uveitis) is recommended.

Sirolimus

Repeat dose administration of posaconazole oral suspension (400 mg twice daily for 16 days) increased the C_{max} and AUC of sirolimus (2 mg single dose) an average of 6.7-fold and 8.9-fold (range 3.1 to 17.5-fold), respectively, in healthy subjects. The effect of posaconazole on sirolimus in patients is unknown, but is expected to be variable due to the variable posaconazole exposure in patients. Co-administration of posaconazole with sirolimus is not recommended and should be avoided whenever possible. If it is considered that co-administration is unavoidable, then it is recommended that the dose of sirolimus should be greatly reduced at the time of initiation of posaconazole therapy and that there should be very frequent monitoring of trough concentrations of sirolimus in whole blood. Sirolimus concentrations should be measured upon initiation, during co-administration, and at discontinuation of posaconazole treatment, with sirolimus doses adjusted accordingly. It should be noted that the relationship between sirolimus trough concentrations that fall within the usual therapeutic range may result in sub-therapeutic levels. Therefore, trough concentrations that fall in the upper part of the usual therapeutic range should be targeted and careful attention should be paid to clinical signs and symptoms, laboratory parameters and tissue biopsies.

Ciclosporin

In heart transplant patients on stable doses of ciclosporin, posaconazole oral suspension 200 mg once daily increased ciclosporin concentrations requiring dose reductions. Cases of elevated ciclosporin levels resulting in serious adverse reactions, including nephrotoxicity and one fatal case of leukoencephalopathy, were reported in clinical efficacy studies. When initiating treatment with posaconazole in patients already receiving ciclosporin, the dose of ciclosporin should be reduced (e.g. to about three quarters of the current dose). Thereafter blood levels of ciclosporin should be monitored carefully during co-administration, and upon discontinuation of posaconazole treatment, and the dose of ciclosporin should be adjusted as necessary.

Tacrolimus

Posaconazole increased C_{max} and AUC of tacrolimus (0.05 mg/kg body weight single dose) by 121 % and 358 %, respectively. Clinically significant interactions resulting in hospitalisation and/or posaconazole discontinuation were reported in clinical efficacy studies. When initiating posaconazole

treatment in patients already receiving tacrolimus, the dose of tacrolimus should be reduced (e.g. to about one third of the current dose). Thereafter blood levels of tacrolimus should be monitored carefully during co-administration, and upon discontinuation of posaconazole, and the dose of tacrolimus should be adjusted as necessary.

HIV Protease inhibitors

As HIV protease inhibitors are CYP3A4 substrates, it is expected that posaconazole will increase plasma levels of these antiretroviral agents. Following co-administration of posaconazole oral suspension (400 mg twice daily) with atazanavir (300 mg once daily) for 7 days in healthy subjects C_{max} and AUC of atazanavir increased by an average of 2.6-fold and 3.7-fold (range 1.2 to 26-fold), respectively. Following co-administration of posaconazole oral suspension (400 mg twice daily) with atazanavir and ritonavir (300/100 mg once daily) for 7 days in healthy subjects C_{max} and AUC of atazanavir increased by an average of 1.5-fold and 2.5-fold (range 0.9 to 4.1-fold), respectively. The addition of posaconazole to therapy with atazanavir or with atazanavir plus ritonavir was associated with increases in plasma bilirubin levels. Frequent monitoring for adverse reactions and toxicity related to antiretroviral agents that are substrates of CYP3A4 is recommended during co-administration with posaconazole.

Midazolam and other benzodiazepines metabolised by CYP3A4

In a study in healthy volunteers posaconazole oral suspension (200 mg once daily for 10 days) increased the exposure (AUC) of intravenous midazolam (0.05 mg/kg) by 83 %. In another study in healthy volunteers, repeat dose administration of posaconazole oral suspension (200 mg twice daily for 7 days) increased the C_{max} and AUC of intravenous midazolam (0.4 mg single dose) by an average of 1.3- and 4.6-fold (range 1.7 to 6.4-fold), respectively; Posaconazole oral suspension 400 mg twice daily for 7 days increased the intravenous midazolam C_{max} and AUC by 1.6 and 6.2-fold (range 1.6 to 7.6-fold), respectively. Both doses of posaconazole increased C_{max} and AUC of oral midazolam (2 mg single oral dose) by 2.2 and 4.5-fold, respectively. In addition, posaconazole oral suspension (200 mg or 400 mg) prolonged the mean terminal half-life of midazolam from approximately 3-4 hours to 8-10 hours during co-administration.

Due to the risk of prolonged sedation it is recommended that dose adjustments should be considered when posaconazole is administered concomitantly with any benzodiazepine that is metabolised by CYP3A4 (e.g. midazolam, triazolam, alprazolam) (see section 4.4).

Calcium channel blockers metabolised through CYP3A4 (e.g. diltiazem, verapamil, nifedipine, nisoldipine)

Frequent monitoring for adverse reactions and toxicity related to calcium channel blockers is recommended during co-administration with posaconazole. Dose adjustment of calcium channel blockers may be required.

Digoxin

Administration of other azoles has been associated with increases in digoxin levels. Therefore, posaconazole may increase plasma concentration of digoxin and digoxin levels need to be monitored when initiating or discontinuing posaconazole treatment.

Sulfonylureas

Glucose concentrations decreased in some healthy volunteers when glipizide was co-administered with posaconazole. Monitoring of glucose concentrations is recommended in diabetic patients.

All-trans retinoic acid (ATRA) or tretinoin

As ATRA is metabolised by the hepatic CYP450 enzymes, notably CYP3A4, concomitant administration with posaconazole, which is a strong inhibitor of CYP3A4, may lead to increased exposure to tretinoin resulting in an increased toxicity (especially hypercalcaemia). Serum calcium levels should be monitored and, if needed, appropriate dose adjustments of tretinoin should be considered during the treatment with posaconazole, and during the following days after treatment.

Venetoclax

Compared with venetoclax 400 mg administered alone, co-administration of 300 mg posaconazole, a

strong CYP3A inhibitor, with venetoclax 50 mg and 100 mg for 7 days in 12 patients, increased venetoclax C_{max} to 1.6-fold and 1.9-fold, and AUC to 1.9-fold and 2.4-fold, respectively (see sections 4.3 and 4.4). Refer to the venetoclax SmPC.

Paediatric population

Interaction studies have only been performed in adults.

4.6 Fertility, pregnancy and lactation

Pregnancy

There is insufficient information on the use of posaconazole in pregnant women. Studies in animals have shown reproductive toxicity (see section 5.3). The potential risk for humans is unknown.

Women of childbearing potential have to use effective contraception during treatment. Posaconazole must not be used during pregnancy unless the benefit to the mother clearly outweighs the potential risk to the foetus.

Breast-feeding

Posaconazole is excreted into the milk of lactating rats (see section 5.3). The excretion of posaconazole in human breast milk has not been investigated. Breast-feeding must be stopped on initiation of treatment with posaconazole.

Fertility

Posaconazole had no effect on fertility of male rats at doses up to 180 mg/kg (1.7 times the 400 mg twice daily regimen based on steady-state plasma concentrations in healthy volunteers) or female rats at a dose up to 45 mg/kg (2.2 times the 400-mg twice daily regimen). There is no clinical experience assessing the impact of posaconazole on fertility in humans.

4.7 Effects on ability to drive and use machines

Since certain adverse reactions (e.g. dizziness, somnolence, etc.) have been reported with posaconazole use, which potentially may affect driving/operating machinery, caution needs to be used.

4.8 Undesirable effects

Summary of the safety profile

The safety of posaconazole oral suspension has been assessed in > 2,400 patients and healthy volunteers enrolled in clinical studies and from post-marketing experience. The most frequently reported serious related adverse reactions included nausea, vomiting, diarrhoea, pyrexia, and increased bilirubin.

Tabulated list of adverse reactions

Within the organ system classes, adverse reactions are listed under headings of frequency using the following categories: very common ($\geq 1/10$); common ($\geq 1/100$ to < 1/10); uncommon ($\geq 1/1,000$ to < 1/100); rare ($\geq 1/10,000$ to < 1/1,000); very rare (< 1/10,000); not known (cannot be estimated from the available data).

Table 2. Adverse reactions by body system and frequency reported in clinical studies and/or postmarketing use *

Blood and lymphatic system disorders

Common:	neutropenia
Uncommon:	thrombocytopenia, leukopenia, anaemia, eosinophilia,
	lymphadenopathy, splenic infarction
Rare:	haemolytic uraemic syndrome, thrombotic thrombocytopenic
	purpura, pancytopenia, coagulopathy, haemorrhage
Immune system disorders	
Uncommon:	allergic reaction
Rare:	hypersensitivity reaction
Endocrine disorders	
Rare:	adrenal insufficiency, blood gonadotropin decreased,
Metabolism and nutrition disorders	
Common:	electrolyte imbalance, anorexia, decreased appetite.
	hypokalaemia, hypomagnesaemia
Uncommon.	hyperglycaemia hypoglycaemia
Psychiatric disorders	nj polgi jedenna, nj pogi jedenna
Uncommon.	abnormal dreams confusional state sleep disorder
Rare:	nsychotic disorder depression
Nervous system disorders	
Common:	naraesthesia dizziness somnolence headache dysgeusia
Uncommon:	convulsions neuropathy hyposesthesis tremor aphasis
	insomnia
Rare	cerebrovascular accident encephalopathy peripheral
Kare.	neuropathy syncope
Eve disorders	nouropaniy, syncope
Uncommon:	blurred vision photophobia visual acuity reduced
Rare.	diplopia scotoma
Far and labyrinth disorder	apiopia, scotonia
Rare.	hearing impairment
Cardiac disorders	
Uncommon:	long OT syndrome [§] electrocardiogram abnormal [§]
	nalpitations, bradycardia, supraventricular extrasystoles
	tachycardia
Rare:	torsade de pointes sudden death ventricular tachycardia
Kare.	cardio-respiratory arrest cardiac failure myocardial
	infarction
Vascular disorders	mutution
Common:	hypertension
Uncommon:	hypotension vasculitis
Rare:	nulmonary embolism deep vein thrombosis
Respiratory thoracic and mediastin	al disorders
Uncommon:	cough epistaxis hiccups pasal congestion pleuritic pain
	tachypnoea
Rare:	nulmonary hypertension interstitial pneumonia pneumonitis
Castrointestinal disorders	pumonary hypertension, interstitiar preumonia, preumonitis
Very Common:	
Common:	vomiting abdominal pain diarrhoaa dyspansia dry mouth
	flatulence, constipation, anorectal discomfort
Uncommon:	pancreatitis, abdominal distension, enteritis, epigastric
	discomfort, eructation, gastroesophageal reflux disease,
-	oedema mouth
Rare:	gastrointestinal haemorrhage, ileus
Hepatobiliary disorders	
Common:	liver function tests raised (ALT increased, AST increased,
	bilirubin increased alkaline phosphatase increased GGT

	increased)
Uncommon:	hepatocellular damage, hepatitis, jaundice, hepatomegaly,
	cholestasis, hepatic toxicity, hepatic function abnormal
Rare:	hepatic failure, hepatitis cholestatic, hepatosplenomegaly,
	liver tenderness, asterixis
Skin and subcutaneous tissue disord	ers
Common:	rash, pruritis
Uncommon:	mouth ulceration, alopecia, dermatitis, erythema, petechiae
Rare:	Stevens Johnson syndrome, vesicular rash
Not Known:	Photosensitivity reaction [§]
Musculoskeletal and connective tissu	ie disorders
Uncommon:	back pain, neck pain, musculoskeletal pain, pain in extremity
Renal and urinary disorders	
Uncommon:	acute renal failure, renal failure, blood creatinine increased
Rare:	renal tubular acidosis, interstitial nephritis
Reproductive system and breast disc	orders
Uncommon:	menstrual disorder
Rare:	breast pain
General disorders and administration	n site conditions
Common:	pyrexia (fever), asthenia, fatigue
Uncommon:	oedema, pain, chills, malaise, chest discomfort, drug
	intolerance, feeling jittery, mucosal inflammation
Rare:	tongue oedema, face oedema
Investigations	
Uncommon:	altered medicine levels, blood phosphorus decreased, chest x-
	ray abnormal

* Based on adverse reactions observed with the oral suspension, gastro-resistant tablets,

concentrate for solution for infusion, and gastro-resistant powder and solvent for oral suspenion. § See section 4.4

Description of selected adverse reactions

Hepatobiliary disorders

During post-marketing surveillance of posaconazole oral suspension, severe hepatic injury with fatal outcome has been reported (see section 4.4).

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal product is important. It allows continued monitoring of the benefit/risk balance of the medicinal product. Healthcare professionals are asked to report any suspected adverse reactions via the national reporting system listed in <u>Appendix V</u>.

4.9 Overdose

During clinical studies, patients who received posaconazole oral suspension doses up to 1,600 mg/day experienced no different adverse reactions from those reported with patients at the lower doses. Accidental overdose was noted in one patient who took posaconazole oral suspension 1,200 mg twice a day for 3 days. No adverse reactions were noted by the investigator.

Posaconazole is not removed by haemodialysis. There is no special treatment available in the case of overdose with posaconazole. Supportive care may be considered.

5. PHARMACOLOGICAL PROPERTIES

5.1 Pharmacodynamic properties

Pharmacotherapeutic group: Antimycotics for systemic use, Triazole and tetrazole derivatives, ATC code: J02AC04.

Mechanism of action

Posaconazole inhibits the enzyme lanosterol 14α -demethylase (CYP51), which catalyses an essential step in ergosterol biosynthesis.

Microbiology

Posaconazole has been shown in vitro to be active against the following microorganisms: Aspergillus species (Aspergillus fumigatus, A. flavus, A. terreus, A. nidulans, A. niger, A. ustus), Candida species (Candida albicans, C. glabrata, C. krusei, C. parapsilosis, C. tropicalis, C. dubliniensis, C. famata, C. inconspicua, C. lipolytica, C. norvegensis, C. pseudotropicalis), Coccidioides immitis, Fonsecaea pedrosoi, and species of Fusarium, Rhizomucor, Mucor, and Rhizopus. The microbiological data suggest that posaconazole is active against Rhizomucor, Mucor, and Rhizopus; however the clinical data are currently too limited to assess the efficacy of posaconazole against these causative agents.

The following *in vitro* data are available, but their clinical significance is unknown. In a surveillance study of > 3,000 clinical mold isolates from 2010-2018, 90 % of non-*Aspergillus* fungi exhibited the following *in vitro* minimum inhibitory concentration (MIC): *Mucorales* spp (n=81) of 2 mg/L; *Scedosporium apiospermum/S. boydii* (n=65) of 2 mg/L; *Exophiala dermatiditis* (n=15) of 0.5 mg/L, and *Purpureocillium lilacinum* (n=21) of 1 mg/L.

Resistance

Clinical isolates with decreased susceptibility to posaconazole have been identified. The principle mechanism of resistance is the acquisition of substitutions in the target protein, CYP51.

Epidemiological Cut-off (ECOFF) Values for Aspergillus spp.

The ECOFF values for posaconazole, which distinguish the wild type population from isolates with acquired resistance, have been determined by EUCAST methodology.

EUCAST ECOFF values:

- Aspergillus flavus: 0.5 mg/L
- Aspergillus fumigatus: 0.5 mg/L
- Aspergillus nidulans: 0.5 mg/L
- Aspergillus niger: 0.5 mg/L
- Aspergillus terreus: 0.25 mg/L

There are currently insufficient data to set clinical breakpoints for Aspergillus spp. ECOFF values do not equate to clinical breakpoints.

Breakpoints

Susceptibility testing breakpoints

MIC (minimum inhibitory concentration) interpretive criteria for susceptibility testing have been established by the European Committee on Antimicrobial Susceptibility Testing (EUCAST) for Posaconazole and are listed here: https://www.ema.europa.eu/documents/other/minimum-inhibitory-concentration-mic-breakpoints_en.xlsx

Combination with other antifungal agents

The use of combination antifungal therapies should not decrease the efficacy of either posaconazole or the other therapies; however, there is currently no clinical evidence that combination therapy will provide an added benefit.

Pharmacokinetic / Pharmacodynamic relationships

A correlation between total medicinal product exposure divided by MIC (AUC/MIC) and clinical outcome was observed. The critical ratio for subjects with *Aspergillus* infections was ~200. It is particularly important to try to ensure that maximal plasma levels are achieved in patients infected with *Aspergillus* (see sections 4.2 and 5.2 on recommended dose regimens and the effects of food on absorption).

Clinical experience

Summary of posaconazole oral suspension studies

Invasive aspergillosis

Oral posaconazole suspension 800 mg/day in divided doses was evaluated for the treatment of invasive aspergillosis in patients with disease refractory to amphotericin B (including liposomal formulations) or itraconazole or in patients who were intolerant of these medicinal products in a non-comparative salvage therapy study (Study 0041). Clinical outcomes were compared with those in an external control group derived from a retrospective review of medical records. The external control group included 86 patients treated with available therapy (as above) mostly at the same time and at the same sites as the patients treated with posaconazole. Most of the cases of aspergillosis were considered to be refractory to prior therapy in both the posaconazole group (88 %) and in the external control group (79 %).

As shown in Table 3, a successful response (complete or partial resolution) at the end of treatment was seen in 42 % of posaconazole-treated patients compared to 26 % of the external group. However, this was not a prospective, randomized controlled study and so all comparisons with the external control group should be viewed with caution.

	Posaconazole o	oral suspension	External contr	ol group
Overall Response	45/107 (42 %)		22/86 (26 %)	
Success by Species				
All mycologically confirmed				
Aspergillus spp. ¹	34/76	(45 %)	19/74	(26 %)
A. fumigatus	12/29	(41 %)	12/34	(35 %)
A. flavus	10/19	(53 %)	3/16	(19%)
A. terreus	4/14	(29 %)	2/13	(15%)
A. niger	3/5	(60 %)	2/7	(29 %)

Table 3. Overall efficacy of posaconazole oral suspension at the end of treatment for invasive aspergillosis in comparison to an external control group

¹ Includes other less common species or species unknown

Fusarium spp.

11 of 24 patients who had proven or probable fusariosis were successfully treated with posaconazole oral suspension 800 mg/day in divided doses for a median of 124 days and up to 212 days. Among eighteen patients who were intolerant or had infections refractory to amphotericin B or itraconazole, seven patients were classed as responders.

Chromoblastomycosis/Mycetoma

9 of 11 patients were successfully treated with posaconazole oral suspension 800 mg/day in divided doses for a median of 268 days and up to 377 days. Five of these patients had chromoblastomycosis due to Fonsecaea pedrosoi and 4 had mycetoma, mostly due to Madurella species.

Coccidioidomycosis

11 of 16 patients were successfully treated (at the end of treatment complete or partial resolution of signs and symptoms present at baseline) with posaconazole oral suspension 800 mg/day in divided doses for a median of 296 days and up to 460 days.

Treatment of azole-susceptible Oropharyngeal Candidiasis (OPC)

A randomized, evaluator-blind, controlled study was completed in HIV-infected patients with azole susceptible oropharyngeal candidiasis (most patients studied had C. albicans isolated at baseline). The primary efficacy variable was the clinical success rate (defined as cure or improvement) after 14 days of treatment. Patients were treated with posaconazole or fluconazole oral suspension (both posaconazole and fluconazole were given as follows: 100 mg twice a day for 1 day followed by 100 mg once a day for 13 days).

The clinical response rates from the above study are shown in the Table 4 below. Posaconazole was shown to be non-inferior to fluconazole for clinical success rates at Day 14 as well as 4 weeks after the end of treatment.

Table 4.	Clinical	success ra	ates in (Orophary	ngeal (Candidiasis
I able 4	Cinical	Success It	ues m	Oropha y	ngour	Culturalabis

Endpoint	Posaconazole	Fluconazole
Clinical success rate at Day 14	91.7 % (155/169)	92.5 % (148/160)
Clinical success rate 4 weeks after end of treatment	68.5 % (98/143)	61.8 % (84/136)

Clinical success rate was defined as the number of cases assessed as having a clinical response (cure or improvement) divided by the total number of cases eligible for analysis

Prophylaxis of Invasive Fungal Infections (IFIs) (Studies 316 and 1899)

Two randomized, controlled prophylaxis studies were conducted among patients at high-risk for developing invasive fungal infections.

Study 316 was a randomized, double-blind study of posaconazole oral suspension (200 mg three times a day) versus fluconazole capsules (400 mg once daily) in allogeneic hematopoietic stem cell transplant recipients with graft-versus-host disease (GVHD). The primary efficacy endpoint was the incidence of proven/probable IFIs at 16 weeks post-randomization as determined by an independent, blinded external expert panel. A key secondary endpoint was the incidence of proven/probable IFIs during the on-treatment period (first dose to last dose of study medicinal product + 7 days). The majority (377/600, [63 %]) of patients included had Acute Grade 2 or 3 or chronic extensive (195/600, [32.5 %]) GVHD at study start. The mean duration of therapy was 80 days for posaconazole and 77 days for fluconazole.

Study 1899 was a randomized, evaluator-blinded study of posaconazole oral suspension (200 mg three times a day) versus fluconazole suspension (400 mg once daily) or itraconazole oral solution (200 mg twice a day) in neutropenic patients who were receiving cytotoxic chemotherapy for acute myelogenous leukaemia or myelodysplastic syndromes. The primary efficacy endpoint was the incidence of proven/probable IFIs as determined by an independent, blinded external expert panel during the on-treatment period. A key secondary endpoint was the incidence of proven/probable IFIs at 100 days post-randomization. New diagnosis of acute myelogenous leukaemia was the most common underlying condition (435/602, [72 %]). The mean duration of therapy was 29 days for posaconazole and 25 days for fluconazole/itraconazole.

In both prophylaxis studies, aspergillosis was the most common breakthrough infection. See Table 5 and 6 for results from both studies. There were fewer breakthrough *Aspergillus* infections in patients receiving posaconazole prophylaxis when compared to control patients.

Table 5. Results from clinical studies in	n prophylaxis of Invasive Fungal Infections	3
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Study	Posaconazole oral	Control ^a	P-Value		
	suspension				
	Proportion (%) of patients	with proven/probable I	FIs		
	On-treatm	ent period ^b			
1899 ^d	7/304 (2)	25/298 (8)	0.0009		
316 ^e	7/291 (2)	22/288 (8)	0.0038		
Fixed-time period ^c					
1899 ^d	14/304 (5)	33/298 (11)	0.0031		
316 ^d	16/301 (5)	27/299 (9)	0.0740		

FLU =fluconazole; ITZ =itraconazole; POS =posaconazole.

a: FLU/ITZ (1899); FLU (316).

b: In 1899 this was the period from randomization to last dose of study medicinal product plus 7 days; in 316 it was the period from first dose to last dose of study medicinal product plus 7 days.

c: In 1899, this was the period from randomisation to 100 days post-randomization; in 316 it was the period from the baseline day to 111 days post-baseline.

d: All randomized

e: All treated

Table 6. Results from clinical studies in prophylaxis of Invasive Fungal Infections

Study	Posaconazole oral	Control ^a		
	suspension			
Propor	rtion (%) of patients with proven/prob	able Aspergillosis		
	On-treatment period ^b			
1899 ^d	2/304 (1)	20/298 (7)		
316 ^e	3/291 (1)	17/288 (6)		
Fixed-time period ^c				
1899 ^d	4/304 (1)	26/298 (9)		
316 ^d	7/301 (2)	21/299 (7)		

FLU = fluconazole; ITZ = itraconazole; POS = posaconazole.

a: FLU/ITZ (1899); FLU (316).

b: In 1899 this was the period from randomization to last dose of study medicinal product plus 7 days; in 316 it was the period from first dose to last dose of study medicinal product plus 7 days.

c: In 1899, this was the period from randomisation to 100 days post-randomization; in 316 it was the period from the baseline day to 111 days post-baseline.

d: All randomized

e: All treated

In Study 1899, a significant decrease in all-cause mortality in favour of posaconazole was observed [POS 49/304 (16 %) vs. FLU/ITZ 67/298 (22 %) p=0.048]. Based on Kaplan-Meier estimates, the probability of survival up to day 100 after randomization, was significantly higher for posaconazole recipients; this survival benefit was demonstrated when the analysis considered all causes of death (P= 0.0354) as well as IFI-related deaths (P = 0.0209).

In Study 316, overall mortality was similar (POS, 25 %; FLU, 28 %); however, the proportion of IFI-related deaths was significantly lower in the POS group (4/301) compared with the FLU group (12/299; P = 0.0413).

Paediatric population

No dose of posaconazole oral suspension could be recommended for paediatric patients. However, the safety and efficacy of other formulations of posaconazole (posaconazole gastro-resistant powder and solvent for oral suspension; posaconazole concentrate for solution for infusion) have been established in paediatric patients 2 to less than 18 years of age. Refer to their SmPC for additional information.

Electrocardiogram evaluation

Multiple, time-matched ECGs collected over a 12-hour period were obtained before and during administration of posaconazole oral suspension (400 mg twice daily with high fat meals) from 173 healthy male and female volunteers aged 18 to 85 years. No clinically relevant changes in the mean QTc (Fridericia) interval from baseline were observed.

5.2 Pharmacokinetic properties

Absorption

Posaconazole is absorbed with a median T_{max} of 3 hours (fed patients). The pharmacokinetics of posaconazole are linear following single and multiple dose administration of up to 800 mg when taken with a high fat meal. No further increases in exposure were observed when doses above 800 mg daily were administered to patients and healthy volunteers. In the fasting state, AUC increased less than in proportion to dose above 200 mg. In healthy volunteers under fasting conditions, dividing the total daily dose (800 mg) into 200 mg four times daily compared to 400 mg twice daily, was shown to increase posaconazole exposure by 2.6-fold.

Effect of food on oral absorption in healthy volunteers

The absorption of posaconazole was significantly increased when posaconazole 400 mg (once daily) was administered during and immediately after the consumption of a high fat meal (~ 50 grams fat) compared to administration before a meal, with C_{max} and AUC increasing by approximately 330 % and 360 %, respectively. The AUC of posaconazole is: 4 times greater when administered with a high fat meal (~ 50 grams fat) and about 2.6 times greater when administered during a non-fat meal or nutritional supplement (14 grams fat) relative to the fasted state (see sections 4.2 and 4.5).

Distribution

Posaconazole is slowly absorbed and slowly eliminated with a large apparent volume of distribution (1,774 litres) and is highly protein bound (> 98 %), predominantly to serum albumin.

Biotransformation

Posaconazole does not have any major circulating metabolites and its concentrations are unlikely to be altered by inhibitors of CYP450 enzymes. Of the circulating metabolites, the majority are glucuronide conjugates of posaconazole with only minor amounts of oxidative (CYP450 mediated) metabolites observed. The excreted metabolites in urine and faeces account for approximately 17 % of the administered radiolabelled dose.

Elimination

Posaconazole is slowly eliminated with a mean half-life (t½) of 35 hours (range 20 to 66 hours). After administration of ¹⁴C-posaconazole, radioactivity was predominantly recovered in the faeces (77 % of the radiolabelled dose) with the major component being parent compound (66 % of the radiolabelled dose). Renal clearance is a minor elimination pathway, with 14 % of the radiolabelled dose excreted in urine (< 0.2 % of the radiolabelled dose is parent compound). Steady-state is attained following 7 to 10 days of multiple-dose administration.

Pharmacokinetics in special populations

Children (< 18 years)

Following administration of 800 mg per day of posaconazole as a divided dose for treatment of invasive fungal infections, mean trough plasma concentrations from 12 patients 8 - 17 years of age (776 ng/mL) were similar to concentrations from 194 patients 18 - 64 years of age (817 ng/mL). Similarly, in the prophylaxis studies, the mean steady-state posaconazole average concentration (Cav)

was comparable among ten adolescents (13-17 years of age) to Cav achieved in adults (\geq 18 years of age). In a study of 136 neutropenic paediatric patients 11 months – 17 years treated with posaconazole oral suspension at doses up to 18 mg/kg/day divided TID, approximately 50 % met the pre-specified target (Day 7 Cav between 500 ng/mL-2,500 ng/mL). In general, exposures tended to be higher in the older patients (7 to <18 years) than in younger patients (2 to <7 years).

Gender

The pharmacokinetics of posaconazole are comparable in men and women.

Elderly

An increase in C_{max} (26 %) and AUC (29 %) was observed in elderly subjects (24 subjects \geq 65 years of age) relative to younger subjects (24 subjects 18 - 45 years of age). However, in clinical efficacy studies, the safety profile of posaconazole between the young and elderly patients was similar.

Race

There was a slight decrease (16 %) in the AUC and C_{max} of posaconazole oral suspension in Black subjects relative to Caucasian subjects. However, the safety profile of posaconazole between the Black and Caucasian subjects was similar.

Weight

The population pharmacokinetic model of posaconazole concentrate for solution for infusion and tablets indicates that posaconazole clearance is related to weight. In patients > 120 kg, the C_{av} is decreased by 25 % and in patients < 50 kg, the C_{av} is increased by 19 %. It is, therefore, suggested to closely monitor for breakthrough fungal infections in patients weighing more than 120 kg.

Renal impairment

Following single-dose administration of posaconazole oral suspension, there was no effect of mild and moderate renal impairment (n=18, Cl $_{cr} \ge 20 \text{ mL/min/1.73 m}^2$) on posaconazole pharmacokinetics; therefore, no dose adjustment is required. In subjects with severe renal impairment (n=6, Cl $_{cr} < 20 \text{ mL/min/1.73 m}^2$), the AUC of posaconazole was highly variable [> 96 % CV (coefficient of variance)] compared to other renal groups [< 40 % CV]. However, as posaconazole is not significantly renally eliminated, an effect of severe renal impairment on the pharmacokinetics of posaconazole is not expected and no dose adjustment is recommended. Posaconazole is not removed by haemodialysis.

Hepatic impairment

After a single oral dose of 400 mg posaconazole oral suspension to patients with mild (Child-Pugh Class A), moderate (Child-Pugh Class B) or severe (Child-Pugh Class C) hepatic impairment (six per group), the mean AUC was 1.3 to 1.6-fold higher compared to that for matched control subjects with normal hepatic function. Unbound concentrations were not determined and it cannot be excluded that there is a larger increase in unbound posaconazole exposure than the observed 60 % increase in total AUC. The elimination half-life ($t_{1/2}$) was prolonged from approximately 27 hours up to ~43 hours in respective groups. No dose adjustment is recommended for patients with mild to severe hepatic impairment but caution is advised due to the potential for higher plasma exposure.

5.3 Preclinical safety data

As observed with other azole antifungal agents, effects related to inhibition of steroid hormone synthesis were seen in repeated-dose toxicity studies with posaconazole. Adrenal suppressive effects were observed in toxicity studies in rats and dogs at exposures equal to or greater than those obtained at therapeutic doses in humans.

Neuronal phospholipidosis occurred in dogs dosed for ≥ 3 months at lower systemic exposures than those obtained at therapeutic doses in humans. This finding was not seen in monkeys dosed for one year. In twelve-month neurotoxicity studies in dogs and monkeys, no functional effects were observed on the central or peripheral nervous systems at systemic exposures greater than those achieved therapeutically. Pulmonary phospholipidosis resulting in dilatation and obstruction of the alveoli was observed in the 2-year study in rats. These findings are not necessarily indicative of a potential for functional changes in humans.

No effects on electrocardiograms, including QT and QTc intervals, were seen in a repeat dose safety pharmacology study in monkeys at systemic exposures 4.6-fold greater than the concentrations obtained at therapeutic doses in humans. Echocardiography revealed no indication of cardiac decompensation in a repeat dose safety pharmacology study in rats at a systemic exposure 1.4-fold greater than that achieved therapeutically. Increased systolic and arterial blood pressures (up to 29 mm-Hg) were seen in rats and monkeys at systemic exposures 1.4-fold and 4.6-fold greater, respectively, than those achieved with the human therapeutic doses.

Reproduction, peri- and postnatal development studies were conducted in rats. At exposures lower than those obtained at therapeutic doses in humans, posaconazole caused skeletal variations and malformations, dystocia, increased length of gestation, reduced mean litter size and postnatal viability. In rabbits, posaconazole was embryotoxic at exposures greater than those obtained at therapeutic doses. As observed with other azole antifungal agents, these effects on reproduction were considered to be due to a treatment-related effect on steroidogenesis.

Posaconazole was not genotoxic in *in vitro* and *in vivo* studies. Carcinogenicity studies did not reveal special hazards for humans.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Macrogolglycerol hydroxystearate Sodium citrate dihydrate Citric acid monohydrate Simeticone emulsion (containing polydimethylsiloxane, polyethylene glycol sorbitan tristearate, methylcellulose, silica gel, polyethylene glycol stearate, sorbic acid (E200), benzoic acid (E210) and sulfuric acid (E513)) Xanthan gum (E415) Sodium benzoate (E211) Liquid glucose Glycerol (E422) Titanium dioxide (E171) Strawberry flavour (containing propylene glycol) Purified water

6.2 Incompatibilities

Not applicable.

6.3 Shelf life

30 months After first opening the container: 30 days

6.4 Special precautions for storage

This medicinal product does not require any special storage conditions.

6.5 Nature and contents of container

The primary packaging is an amber glass bottle (Type III) closed with a child-resistant and tamper

evident polypropylene cap. The filled and sealed bottle is packed into a carton along with a graduated polystyrene spoon (2.5 mL and 5 mL) for dispensing and administration of the suspension.

6.6 Special precautions for disposal

No special requirements

7. MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U. World Trade Center, Moll de Barcelona s/n, Edifici Est, 6ª planta, Barcelona, 08039 Barcelona, Spain

8. MARKETING AUTHORISATION NUMBER(S)

EU/1/19/1380/001

9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION

Date of first authorisation: 25th July 2019 Date of latest renewal: 09th April 2024

10. DATE OF REVISION OF THE TEXT

Detailed information on this product is available on the website of the European Medicines Agency http://www.ema.europa.eu

ANNEX II

- A. MANUFACTURERS RESPONSIBLE FOR BATCH RELEASE
- B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE
- C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION
- D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

A. MANUFACTURER(S) RESPONSIBLE FOR BATCH RELEASE

Name and address of the manufacturer(s) responsible for batch release

Accord Healthcare Polska Sp. z o.o. ul. Lutomierska 50 95-200 Pabianice POLAND

Laboratori Fundacio Dau C/ C, 12-14 Pol. Ind. Zona Franca 08040 Barcelona SPAIN

Pharmadox Healthcare Ltd. KW20A Kordin Industrial Park Paola, PLA 3000 MALTA

The printed package leaflet of the medicinal product must state the name and address of the manufacturer responsible for the release of the concerned batch.

B. CONDITIONS OR RESTRICTIONS REGARDING SUPPLY AND USE

Medicinal product subject to restricted medical prescription (see Annex I: Summary of Product Characteristics, section 4.2).

C. OTHER CONDITIONS AND REQUIREMENTS OF THE MARKETING AUTHORISATION

• Periodic Safety Update Reports

The requirements for submission of periodic safety update reports for this medicinal product are set out in the list of Union reference dates (EURD list) provided for under Article 107c(7) of Directive 2001/83/EC and any subsequent updates published on the European medicines webportal.

D. CONDITIONS OR RESTRICTIONS WITH REGARD TO THE SAFE AND EFFECTIVE USE OF THE MEDICINAL PRODUCT

• Risk Management Plan (RMP)

The MAH shall perform the required pharmacovigilance activities and interventions detailed in the agreed RMP presented in Module 1.8.2 of the Marketing Authorisation and any agreed subsequent updates of the RMP.

An updated RMP should be submitted:

- At the request of the European Medicines Agency;
- Whenever the risk management system is modified, especially as the result of new information being received that may lead to a significant change to the benefit/risk profile or as the result of an important (pharmacovigilance or risk minimisation) milestone being reached.

ANNEX III

LABELLING AND PACKAGE LEAFLET

A. LABELLING

PARTICULARS TO APPEAR ON THE OUTER PACKAGING

OUTER CARTON

1. NAME OF THE MEDICINAL PRODUCT

Posaconazole AHCL 40 mg/mL oral suspension posaconazole

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each mL contains 40 mg of posaconazole.

3. LIST OF EXCIPIENTS

Contains glucose, sodium benzoate (E211), benzoic acid (E210) and propylene glycol (E1520). See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Oral suspension 105 mL Measuring spoon

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use. Shake well before use. Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

Posaconazole oral suspension and posaconazole tablets are NOT interchangeable.

8. EXPIRY DATE

EXP Discard after 30 days of opening. Opening date:_____

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U. World Trade Center, Moll de Barcelona s/n, Edifici Est, 6a planta, Barcelona, 08039 Barcelona, Spain

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/19/1380/001

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

Posaconazole AHCL

17. UNIQUE IDENTIFIER – 2D BARCODE

2D barcode carrying the unique identifier included.

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

PC

SN NN

ININ

PARTICULARS TO APPEAR ON THE IMMEDIATE PACKAGING

BOTTLE LABEL

1. NAME OF THE MEDICINAL PRODUCT

Posaconazole AHCL 40 mg/mL oral suspension posaconazole

2. STATEMENT OF ACTIVE SUBSTANCE(S)

Each mL contains 40 mg of posaconazole.

3. LIST OF EXCIPIENTS

Contains glucose, sodium benzoate (E211), benzoic acid (E210) and propylene glycol (E1520). See leaflet for further information.

4. PHARMACEUTICAL FORM AND CONTENTS

Oral suspension 105 mL

5. METHOD AND ROUTE(S) OF ADMINISTRATION

Read the package leaflet before use. Shake well before use. Oral use.

6. SPECIAL WARNING THAT THE MEDICINAL PRODUCT MUST BE STORED OUT OF THE SIGHT AND REACH OF CHILDREN

Keep out of the sight and reach of children.

7. OTHER SPECIAL WARNING(S), IF NECESSARY

8. EXPIRY DATE

EXP

Discard after 30 days of opening.

9. SPECIAL STORAGE CONDITIONS

10. SPECIAL PRECAUTIONS FOR DISPOSAL OF UNUSED MEDICINAL PRODUCTS OR WASTE MATERIALS DERIVED FROM SUCH MEDICINAL PRODUCTS, IF APPROPRIATE

11. NAME AND ADDRESS OF THE MARKETING AUTHORISATION HOLDER

Accord Healthcare S.L.U.

12. MARKETING AUTHORISATION NUMBER(S)

EU/1/19/1380/001

13. BATCH NUMBER

Lot

14. GENERAL CLASSIFICATION FOR SUPPLY

15. INSTRUCTIONS ON USE

16. INFORMATION IN BRAILLE

17. UNIQUE IDENTIFIER – 2D BARCODE

18. UNIQUE IDENTIFIER - HUMAN READABLE DATA

B. PACKAGE LEAFLET

Package leaflet: Information for the user

Posaconazole AHCL 40 mg/mL oral suspension

posaconazole

Read all of this leaflet carefully before you start taking this medicine because it contains important information for you.

- Keep this leaflet. You may need to read it again.
- If you have any further questions, ask your doctor, pharmacist, or nurse.
- This medicine has been prescribed for you only. Do not pass it on to others. It may harm them, even if their signs of illness are the same as yours.
- If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. See section 4.

What is in this leaflet

- 1. What Posaconazole AHCL is and what it is used for
- 2. What you need to know before you take Posaconazole AHCL
- 3. How to take Posaconazole AHCL
- 4. Possible side effects
- 5. How to store Posaconazole AHCL
- 6. Contents of the pack and other information

1. What Posaconazole AHCL is and what it is used for

Posaconazole AHCL contains a medicine called posaconazole. This belongs to a group of medicines called "antifungals". It is used to prevent and treat many different fungal infections.

This medicine works by killing or stopping the growth of some types of fungi that can cause infections.

Posaconazole AHCL can be used in adults to treat the following types of fungal infections when other antifungal medicines have not worked or you have had to stop taking them:

- infections caused by fungi of the Aspergillus family that have not improved during treatment with the anti-fungal medicines amphotericin B or itraconazole or when these medicines have had to be stopped;
- infections caused by fungi of the Fusarium family that have not improved during treatment with amphotericin B or when amphotericin B has had to be stopped;
- infections caused by fungi that cause the conditions known as "chromoblastomycosis" and "mycetoma" that have not improved during treatment with itraconazole or when itraconazole has had to be stopped;
- infections caused by a fungus called Coccidioides that have not improved during treatment with one or more of amphotericin B, itraconazole or fluconazole or when these medicines have had to be stopped;
- infections in the mouth or throat area (known as "thrush") caused by fungi called Candida, which were not previously treated.

This medicine can also be used to prevent fungal infections in adults who are at high risk of getting a fungal infection, such as:

- patients who have a weak immune system due to having chemotherapy for "acute myelogenous leukaemia" (AML) or "myelodysplastic syndromes" (MDS)
- patients having "high- dose immunosuppressive therapy" after "hematopoietic stem cell transplant" (HSCT).

2. What you need to know before you take Posaconazole AHCL

Do not take Posaconazole AHCL

- if you are allergic to posaconazole or any of the other ingredients of this medicine (listed in section 6).
- if you are taking: terfenadine, astemizole, cisapride, pimozide, halofantrine, quinidine, any medicines that contain "ergot alkaloids" such as ergotamine or dihydroergotamine, or a "statin" such as simvastatin, atorvastatin or lovastatin.
- if you have just started taking venetoclax or your venetoclax dose is being slowly increased for treatment of chronic lymphocytic leukaemia (CLL).

Do not take Posaconazole AHCL if any of the above apply to you. If you are not sure, talk to your doctor or pharmacist before taking Posaconazole AHCL.

See "Other medicines and Posaconazole AHCL" below for more information including information on other medicines which may interact with Posaconazole AHCL.

Warnings and precautions

Talk to your doctor, pharmacist or nurse before taking Posaconazole AHCL

- if you have had an allergic reaction to another antifungal medicine such as ketoconazole, fluconazole, itraconazole or voriconazole.
- if you have or have ever had liver problems. You may need to have blood tests while you are taking this medicine.
- if you develop severe diarrhoea or vomiting, as these conditions may limit the effectiveness of this medicine.
- if you have an abnormal heart rhythm tracing (ECG) that shows a problem called long QTc interval
- if you have a weakness of the heart muscle or heart failure
- if you have a very slow heartbeat
- if you have heart rhythm disturbance
- if you have any problem with potassium, magnesium or calcium levels in your blood
- if you are taking vincristine, vinblastine and other "vinca alkaloids" (medicines used to treat cancer).
- if you are taking venetoclax (a medicine used to treat cancer).

If any of the above apply to you (or you are not sure), talk to your doctor, pharmacist or nurse before taking Posaconazole AHCL.

If you develop severe diarrhoea or vomiting (being sick) while taking Posaconazole AHCL, talk to your doctor, pharmacist or nurse straight away, as this may stop it from working properly. See section 4 for more information

You should avoid sun exposure while being treated. It is important to cover sun exposed areas of skin with protective clothing and use sunscreen with a high sun protection factor (SPF), as an increased sensitivity of skin to the sun's UV rays can occur.

Children

Posaconazole AHCL oral suspension should not be used in children and adolescents (17 years of age and younger).

Other medicines and Posaconazole AHCL

Tell your doctor or pharmacist if you are taking, have recently taken or might take any other medicines.

Do not take Posaconazole AHCL if you are taking any of the following:

- terfenadine (used to treat allergies)
- astemizole (used to treat allergies)

- cisapride (used to treat stomach problems)
- pimozide (used to treat symptoms of Tourette's and mental illness)
- halofantrine (used to treat malaria)
- quinidine (used to treat abnormal heart rhythms).

Posaconazole AHCL can increase the amount of these medicines in the blood which may lead to very serious changes to your heart rhythm:

- any medicines that contain "ergot alkaloids" such as ergotamine or dihydroergotamine used to treat migraines. Posaconazole AHCL can increase the amount of these medicines in the blood which may lead to a severe decrease in blood flow to your fingers or toes and could cause damage to them.
- a "statin" such as simvastatin, atorvastatin or lovastatin used to treat high cholesterol.
- venetoclax when used at the start of the treatment of a type of cancer, chronic lymphocytic leukaemia (CLL).

Do not take Posaconazole AHCL if any of the above apply to you. If you are not sure, talk to your doctor or pharmacist before taking this medicine.

Other medicines

Look at the list of medicines given above that must not be taken while you are taking Posaconazole AHCL. In addition to the medicines named above there are other medicines that carry a risk of rhythm problems that may be greater when they are taken with Posaconazole AHCL. Please make sure you tell your doctor about all the medicines you are taking (prescribed or non-prescribed).

Certain medicines may increase the risk of side effects of Posaconazole AHCL by increasing the amount of Posaconazole AHCL in the blood.

The following medicines may decrease the effectiveness of Posaconazole AHCL by decreasing the amount of Posaconazole AHCL in the blood:

- rifabutin and rifampicin (used to treat certain infections). If you are already taking rifabutin, you will need a blood test and you will need to look out for some possible side effects of rifabutin.
- phenytoin, carbamazepine, phenobarbital or primidone (used to treat or prevent fits).
- efavirenz and fosamprenavir used to treat HIV infection.
- medicines used to decrease stomach acid such as cimetidine and ranitidine or omeprazole and similar medicines that are called proton pump inhibitors.
- flucloxacillin (antibiotic used against bacterial infections).

Posaconazole AHCL may possibly increase the risk of side effects of some other medicines by increasing the amount of these medicines in the blood. These medicines include:

- vincristine, vinblastine and other "vinca alkaloids" (used to treat cancer)
- venetoclax (used to treat cancer)
- ciclosporin (used during or after transplant surgery)
- tacrolimus and sirolimus (used during or after transplant surgery)
- rifabutin (used to treat certain infections)
- medicines used to treat HIV called protease inhibitors (including lopinavir and atazanavir, which are given with ritonavir)
- midazolam, triazolam, alprazolam or other "benzodiazepines" (used as sedatives or muscle relaxants)
- diltiazem, verapamil, nifedipine, nisoldipine or other "calcium channel blockers" (used to treat high blood pressure)
- digoxin (used to treat heart failure)
- glipizide or other "sulfonylureas" (used to treat high blood sugar)
- all-trans retinoic acid (ATRA), also called tretinoin (used to treat certain blood cancers).

If any of the above apply to you (or you are not sure), talk to your doctor or pharmacist before taking Posaconazole AHCL.

Posaconazole AHCL with food and drink

To improve absorption of posaconazole, whenever possible it should be taken during or immediately after food or a nutritional drink (see section 3 "How to take Posaconazole AHCL"). There is no information on the effect of alcohol on posaconazole.

Pregnancy and breast-feeding

Tell your doctor if you are or think you are pregnant before you start to take Posaconazole AHCL. Do not take Posaconazole AHCL if you are pregnant unless you are told to by your doctor.

If you are a woman who could become pregnant you should use effective contraception while you are taking this medicine. If you become pregnant while you are taking Posaconazole AHCL, contact your doctor straight away.

Do not breast-feed while taking Posaconazole AHCL. This is because small amounts may pass into breast milk.

Driving and using machines

You may feel dizzy, sleepy, or have blurred vision while taking Posaconazole AHCL, which may affect your ability to drive or use tools or machines. If this happens, do not drive or use any tools or machines and contact your doctor.

Posaconazole AHCL contains glucose

Posaconazole AHCL contains approximately 1.75 g of glucose per 5 mL of suspension. If you have been told by your doctor that you have an intolerance to some sugars, contact your doctor before taking this medicine.

Posaconazole AHCL contains sodium

This medicine contains less than 1 mmol sodium (23 mg) per 5 mL of suspension, that is to say essentially 'sodium-free'.

Posaconazole AHCL contains propylene glycol

This medicine contains up to 5.2 mg propylene glycol (E1520) per 5ml of suspension.

Posaconazole AHCL contains sodium benzoate

This medicine contains 11.4mg sodium benzoate (E211) in each 5ml of suspension.

Posaconazole AHCL contains benzoic acid

This medicine contains up to 0.114mg benzoic acid (E210) in each 5ml of suspension.

3. How to take Posaconazole AHCL

Do not switch between posaconazole oral suspension and posaconazole tablets or posaconazole gastroresistant oral suspension without talking to your doctor or pharmacist because it may result in a lack of efficacy or an increased risk of adverse reactions.

Always take this medicine exactly as your doctor or pharmacist has told you. Check with your doctor or pharmacist if you are not sure. Your doctor will monitor your response and condition to determine how long Posaconazole AHCL needs to be given and whether any change is needed to your daily dose.

The table below shows the recommended dose and length of treatment which depend on the type of infection that you have and may be individually adapted for you by your doctor. Do not adapt your dose yourself before consulting your doctor or change your treatment regime.

Whenever possible you should take posaconazole during or immediately after food or a nutritional drink.

Indication	Recommended dose and length of treatment
Treatment of refractory Fungal	The recommended dose is 200 mg (one 5 mL spoonful)
Infections (Invasive aspergillosis,	taken four times daily.
Fusariosis,	Alternatively, if recommended by your doctor, you may
Chromoblastomycosis/Mycetoma,	take 400 mg (two 5 mL spoonfuls) twice a day provided
Coccidioidomycosis)	that you are able to take both doses during or after food or a
	nutritional drink.
First time treatment of Thrush	On the first day of treatment take 200 mg (one 5 mL
	spoonful) once. After the first day, take 100 mg (2.5 mL)
	once a day.
Prevention of serious Fungal	Take 200 mg (one 5 mL spoonful) three times a day.
Infections	

If you take more Posaconazole AHCL than you should

If you are concerned that you may have taken too much, contact your doctor or healthcare professional immediately.

If you forget to take Posaconazole AHCL

If you have missed a dose, take it as soon as you remember and then carry on as before. However, if it is almost time for your next dose, take your dose when it is due. Do not take a double dose to make up for a forgotten dose.

If you have any further questions on the use of this medicine, ask your doctor, pharmacist or nurse.

4. Possible side effects

Like all medicines, this medicine can cause side effects, although not everybody gets them.

Serious side effects

Tell your doctor, pharmacist or nurse straight away if you notice any of the following serious side effects – you may need urgent medical treatment:

- nausea or vomit (feeling or being sick), diarrhoea
- signs of liver problems these include yellowing of your skin or whites of the eyes, unusually dark urine or pale faeces, feeling sick for no reason, stomach problems, loss of appetite or unusual tiredness or weakness, an increase in liver enzymes shown up in blood tests
- allergic reaction.

Other side effects

Tell your doctor, pharmacist or nurse if you notice any of the following side effects:

Common: the following may affect up to 1 in 10 people

- a change in the salt level in your blood shown in blood tests signs include feeling confused or weak
- abnormal skin sensations, such as numbness, tingling, itching, creeping, pricking or burning
- headache
- low potassium levels shown up in blood tests
- low magnesium levels shown up in blood tests
- high blood pressure
- loss of appetite, stomach pain or upset stomach, passing wind, dry mouth, changes in your taste
- heartburn (a burning sensation in the chest rising up to the throat)
- low levels of "neutrophils" a type of white blood cell (neutropenia) –this can make you more likely to get infections and be shown up in blood tests
- fever
- feeling weak, dizzy, tired or sleepy
- rash
- itching

- constipation
- rectal discomfort

Uncommon: the following may affect up to 1 in 100 people

- anaemia signs include headaches, feeling tired or dizzy, being short of breath or looking pale and a low level of haemoglobin shown up in blood tests
- low level of platelets (thrombocytopenia) shown in blood tests this may lead to bleeding
- low level of "leukocytes" a type of white blood cell (leukopenia) shown in blood tests this can make you more likely to get infections
- high level of "eosinophils" a type of white blood cell (eosinophilia) this can happen if you have inflammation
- inflammation of the blood vessels
- heart rhythm problems
- fits (convulsions)
- nerve damage (neuropathy)
- abnormal heart rhythm shown up on a heart trace (ECG), palpitations, slow or fast heartbeat, high or low blood pressure
- low blood pressure
- inflammation of the pancreas (pancreatitis) this may cause severe stomach pain
- oxygen supply to the spleen is interrupted (splenic infarction) this may cause severe stomach pain
- severe kidney problems signs include passing more or less urine, that is a different colour than usual
- high blood levels of creatinine shown in blood tests
- cough, hiccups
- nose bleeds
- severe sharp chest pain when breathing in (pleuritic pain)
- swelling of lymph glands (lymphadenopathy)
- reduced feeling of sensitivity especially on the skin
- tremor
- high or low blood sugar levels
- blurred vision, sensitivity to light
- hair loss (alopecia)
- mouth ulcers
- shivering, feeling generally unwell
- pain, back or neck pain, pain in arms or legs
- water retention (oedema)
- menstrual problems (abnormal vaginal bleeding)
- inability to sleep (insomnia)
- being completely or partially unable to talk
- swelling of the mouth
- abnormal dreams, or difficulty sleeping
- problems with co-ordination or balance
- mucosal inflammation
- stuffy nose
- difficulty breathing
- chest discomfort
- feeling bloated
- mild to severe nausea, vomiting, cramps and diarrhoea, usually caused by a virus, stomach pain
- belching
- feeling jittery

Rare: the following may affect up to 1 in 1,000 people

- pneumonia signs include feeling short of breath and producing discoloured phlegm
- high blood pressure in the blood vessels in the lungs (pulmonary hypertension) this can cause serious damage to your lungs and heart
- blood problems such as unusual blood clotting or prolonged bleeding

- severe allergic reactions, including widespread blistering rash and skin peeling
- mental problems such as hearing voices or seeing things that are not there
- fainting
- having problems thinking or talking, having jerking movements, especially in your hands that you cannot control
- stroke signs include pain, weakness, numbness, or tingling in the limbs
- having a blind or dark spot in your field of vision
- heart failure or heart attack which could lead to the heart stopping beating and death, heart rhythm problems, with sudden death
- blood clots in your legs (deep vein thrombosis) signs include intense pain or swelling of the legs
- blood clots in your lungs (pulmonary embolism) signs include feeling short of breath or pain while breathing
- bleeding into your stomach or gut signs include vomiting blood or passing blood in your stool
- a blockage in your gut (intestinal obstruction) especially in the "ileum". The blockage will prevent the contents of your intestine from passing through to the lower bowel signs include feeling bloated, vomiting, severe constipation, loss of appetite, and cramps
- "haemolytic uraemic syndrome" when red blood cells breakup (haemolysis) which may happen with or without kidney failure
- "pancytopenia" low level of all blood cells (red and white blood cells and platelets) shown in blood tests
- large purple discolourations on the skin (thrombotic thrombocytopenic purpura)
- swelling of the face or tongue
- depression
- double vision
- breast pain
- adrenal glands not working properly this may cause weakness, tiredness, loss of appetite, skin discolouration
- pituitary gland not working properly this may cause low blood levels of some hormones that affect the function of the male or female sex organs
- hearing problems
- pseudoaldosteronism, which results in high blood pressure with a low potassium level (shown in blood test)

Not known: frequency cannot be estimated from the available data

- some patients have also reported feeling confused after taking Posaconazole AHCL.
- redness of the skin.

Tell your doctor, pharmacist or nurse if you notice any of the side effects listed above.

Reporting of side effects

If you get any side effects, talk to your doctor, pharmacist or nurse. This includes any possible side effects not listed in this leaflet. You can also report side effects directly via the national reporting system listed in <u>Appendix V</u>. By reporting side effects you can help provide more information on the safety of this medicine.

5. How to store Posaconazole AHCL

- Keep this medicine out of the sight and reach of children.
- Do not use this medicine after the expiry date which is stated on the label. The expiry date refers to the last day of that month.
- This medicinal product does not require any special storage conditions.
- If you have any suspension left in a bottle more than 30 days after it was first opened, you should not use this medicine. Please return the bottle containing any leftover suspension to your pharmacist.

- Do not throw away any medicines via wastewater or household waste. Ask your pharmacist how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Posaconazole AHCL contains

The active substance is posaconazole. Each millilitre of oral suspension contains 40 milligrams of posaconazole.

The other ingredients in the suspension are macrogolglycerol hydroxystearate, sodium citrate dihydrate, citric acid monohydrate, simeticone emulsion (containing polydimethylsiloxane, polyethylene glycol sorbitan tristearate, methylcellulose, silica gel, polyethylene glycol stearate, sorbic acid (E200), benzoic acid (E210) and sulfuric acid (E513)), xanthan gum (E415), sodium benzoate (E211), liquid glucose, glycerol (E422), titanium dioxide (E171), strawberry flavour (containing propylene glycol) and purified water.

What Posaconazole AHCL looks like and contents of the pack

Posaconazole AHCL is a white to off-white free flowing suspension, packaged in amber glass bottle. A measuring spoon is provided with each bottle for measuring 2.5 and 5 mL doses of the oral suspension.

Marketing Authorisation Holder

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Manufacturer

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This leaflet was last revised in {MM/YYYY}

Other sources of information

Detailed information on this medicine is available on the European Medicines Agency web site: <u>http://www.ema.europa.eu</u>.